

WHAT WE CLAIM IS:

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1. A polishing cloth for chemically mechanically polishing a workpiece, said chemical mechanical polishing cloth comprising, on an opposite-to-workpiece face thereof: polishing projections having polishing faces arranged to come in contact with a workpiece for polishing the same; polishing agent passages, having bottoms, for introducing a polishing agent; and
- 10 at least one-stage step portions formed between said polishing faces of said polishing projections and the bottoms of said polishing agent passages.

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2. A chemical mechanical polishing cloth according to Claim 1, wherein:
- 15 said polishing cloth has a flat plate portion;
- said polishing projections are formed as projecting from said flat plate portion;
- said polishing agent passages are formed by grooves
- 20 formed in said flat plate portion; and
- the surface of said flat plate portion forms said step portions.

3. A chemical mechanical polishing cloth according to Claim 1, wherein:
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said polishing cloth has a flat plate portion;
said polishing projections are formed as projecting
from said flat plate portion, and include a plurality of
multi-stage projections having at least one-stage
5 difference-in-level faces and the top faces serving as said
polishing faces;

said polishing agent passages are formed by the spaces
among said plurality of multi-stage projections; and

said difference-in-level faces form said step
10 portions.

Sub. BZ 4. A chemical mechanical polishing apparatus,
comprising:

a chemical mechanical polishing cloth for chemically
15 mechanically polishing a workpiece;

a polishing head for holding and rubbing a workpiece
with said chemical mechanical polishing cloth; and

a polishing agent supply mechanism for supplying a
polishing agent to said chemical mechanical polishing cloth,

20 said chemical mechanical polishing cloth including,
on an opposite-to-workpiece face thereof:

polishing projections having polishing faces arranged
to come in contact with a workpiece for polishing the same;

polishing agent passages, having bottoms, for
25 introducing a polishing agent; and

at least one-stage step portions formed between said polishing faces of said polishing projections and the bottoms of said polishing agent passages.

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5. A chemical mechanical polishing apparatus according to Claim 4, wherein:

said polishing cloth has a flat plate portion;

said polishing projections are formed as projecting from said flat plate portion;

10 said polishing agent passages are formed by grooves formed in said flat plate portion and

the surface of said flat plate portion forms said step portions.

15 6. A chemical mechanical polishing apparatus according to Claim 4, wherein:

said polishing cloth has a flat plate portion;

said polishing projections are formed as projecting from said flat plate portion, and include a plurality of
20 multi-stage projections having at least one-stage difference-in-level faces and the top faces serving as said polishing faces;

said polishing agent passages are formed by the spaces among said plurality of multi-stage projections; and

25 said difference-in-level faces form said step

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~~portions.~~

add B^3

$\{x^0, \dots, x^{n-1}\}$ $\{y^0, \dots, y^{n-1}\}$ $\{z^0, \dots, z^{n-1}\}$ $\{w^0, \dots, w^{n-1}\}$